EQUIPMENT
Operation Manual

LED Timer Handle
Item # 1003327

LED Timer Handle
Item # 1003327 &
Battery Kit
Item # 1044301

Loctite®

Item # 1003327 7700-HD / 7703-HD Timer Handle

TABLE OF CONTENTS

1. PLEASE OBSERVE THE FOLLOWING 3

1.1 EMPHASIZED SECTIONS 3
1.2 ITEMS SUPPLIED 3
1.3 FOR YOUR SAFETY 3
1.4 FIELD OF APPLICATION, (INTENDED USAGE) 4

2. DESCRIPTION 4

2.1 THEORY OF OPERATION 4
2.2 OPERATING ELEMENTS AND CONNECTIONS 5

3. TECHNICAL DATA 7

3.1 ENERGY REQUIREMENTS 7
3.2 DIMENSIONS 7

4. OPERATING THE UNIT 7

4.1 RECOMMENDED INSTALLATION AND OPERATION 7
4.2 POWERING UP 7
4.3 SETTING THE TIMER 6
4.4 OPERATION 7
4.5 BATTERY KIT 8
4.6 BATTERY INSTALLATION 9

5. CARE AND MAINTENANCE 10

6. TROUBLESHOOTING 10

7. DOCUMENTATION 10

7.1 REPLACEMENT PARTS AND ACCESSORIES 10

1. Please Observe the Following

1.1 Emphasized Sections

⚠ **WARNING!**
Refers to safety regulations and required measures that protect the operator or other persons from injury or danger to life.

! **Caution!**
Emphasizes what must be done or avoided so that the unit or other property is not damaged.

☞ **Notice:**
Gives recommendations for better handling of the unit during operation or adjustment, as well as for service activities.

1.2 Items Supplied

1 LED Timer Handle
1 User's manual
1 Mounting Bracket plus hardware for mounting.

1.3 For Your Safety

For safe and successful operation of the unit, read these instructions completely. If the instructions are not observed, the manufacturer can assume no responsibility. Be sure to retain this manual for future reference.

⚠ **WARNING!**
While the Loctite® Handheld LED Light Source has minimal output in the UV-A range, the use of UV safety glasses that conform to ANSI Z87.1/CSA Z94.3 is recommended when operating the unit.

⚠ **WARNING!**
Never directly expose skin to light source.

⚠ **WARNING!**
Never look into the end of the light source.

⚠ **WARNING!**
Damage to the AC Adapter/Charger power cord can result in contact with live electrical parts. Check the power cord before each use. If the power cord is damaged, do not operate.

⚠ **WARNING!**
Do not leave Timer handle in excessive heat environments. Do no incinerate Lithium Ion Batteries. If Battery option is used observe all cautions related to Lithium Ion batteries.

The unit may be repaired only by a Henkel Corporation authorized service technician.

1.4 Field of Application, (Intended Usage)

The Timer Handle is intended to provide a Timed control for the 7700-HD and the 7703-HD.

2. Description

2.1 Theory of Operation

The Loctite® LED Timer Handle, when used with the 7700-HD or the 7703-HD, delivers accurately timed LED exposures. A crystal time base in the Timer Handle assures accurate time exposures. The Timer has a range of .1 to 99.9 seconds.

The time required to complete the curing process depends primarily on the offset distance from the end of the wand to the surface of the adhesive, and the type of adhesive being used. Curing will take place when the light is directed at the liquid adhesive. A minimum distance of ¼ inch, should be maintained to prevent dipping the wand in the adhesive.

When power is supplied to 7700-HD /7703-HD, the by AC Adapter, Item # 989929, the LED timer handle is supplied power.

An optional Charger and two Lithium Ion (LION) batteries can be used to operate the handle and a 7700-HD/7703-HD

3. Operating Elements and Connections

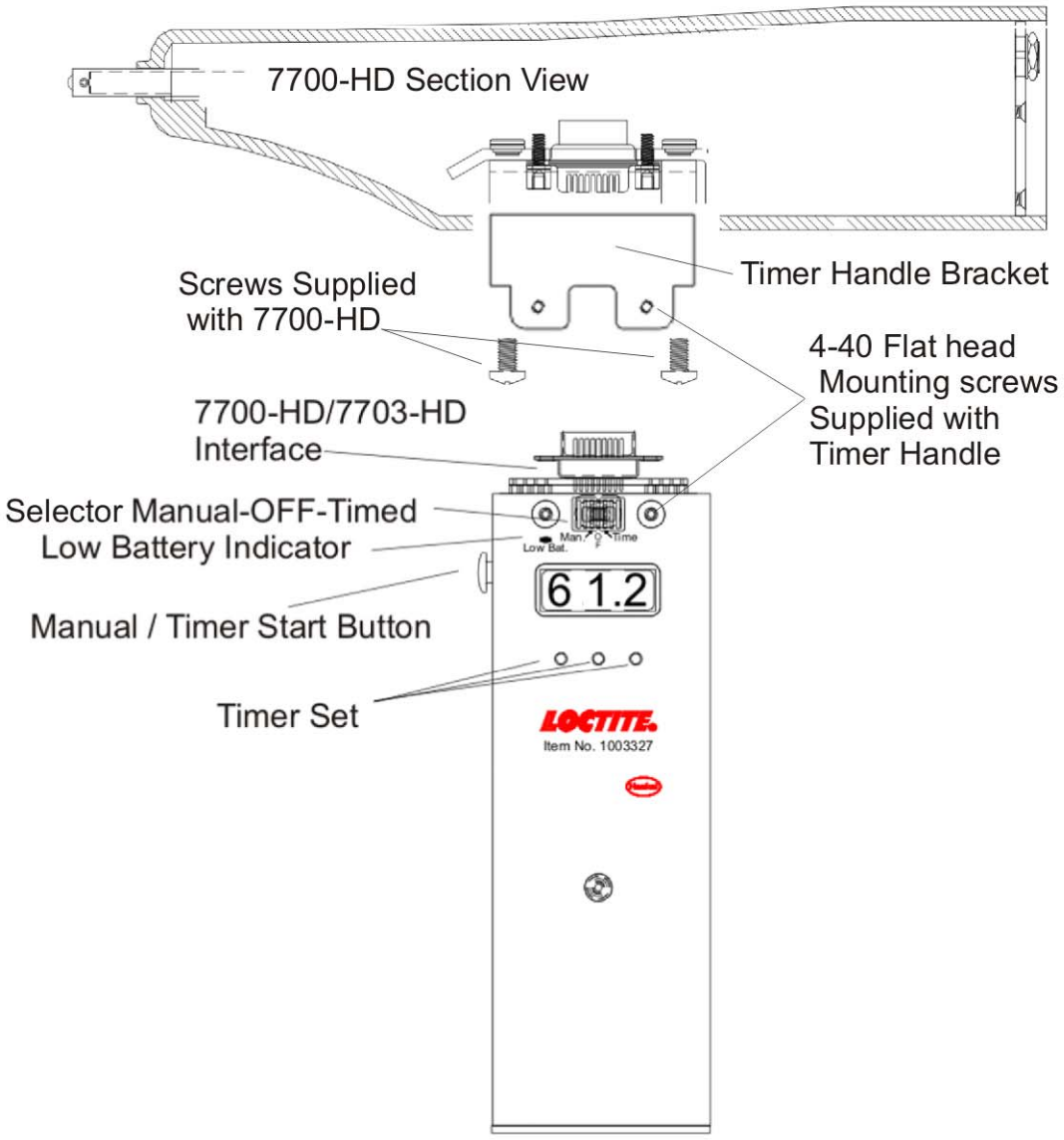
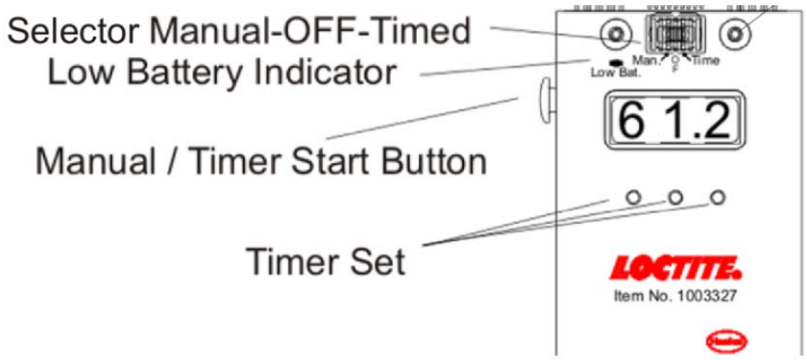


Figure 1

1. Fasten the Timer Handle Bracket to the 7700-HD/7703-HD (using the two 8-32 supplied with the 7700-HD/7703-HD). Plug the 9-Pin D-Sub Interface connector on the Handle, into the 7700-HD/7703-HD, then attach with the four 4-40 flat head screws,(supplied with the Timer Handle) into the handle and bracket. The installation is complete.

3. Operating Elements and Connections continued



2. Selector: Manual-OFF-Timed is a mode selector slide switch. The center position is OFF. Whenever the Handle Timer is not being used, the Selector should be in the OFF position. If the Timer Handle has a battery option, and is to be shut off for greater than one month, remove the rechargeable LION battery to prevent excess discharging of the battery.

3. Manual / Timer Start Button is used to turn on the 7700-HD/7703-HD. When the Selector is in the Manual position, the LED will remain on as long as the switch is pushed. When the Selector is in the Timed position, the LED will remain on for the duration set on the timer. Always point the LED output in a direction away from you and other personnel in the area.

4. Low Battery Indicator

5. Timer Set Buttons are located below the time display. The three buttons are located under each digit which they control. By pushing and holding the button the number will advance. By releasing the button at the correct number the desired time can be set. The button can be pushed once to advance the individual digit by one count. The setting will be saved by the timer handle.
The setting is saved after the handle is operated with the charged battery or power cord.

3. Technical Data

3.1 Energy Requirements

Input Power: Supplied by 7700-HD / 7703-HD
or from Optional Battery and charger.

3.2 Dimensions

Width 3.25 inches
Height: 1.25 inches
Length: 7.75 inches
Weight: 0.75 pounds

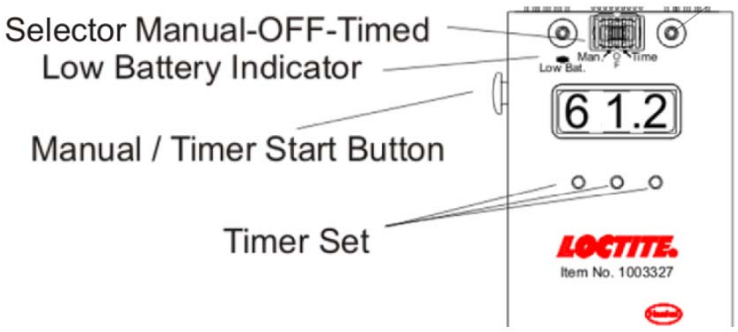
4. Operating the Unit

4.1 Recommended Installation and Operation
For installation see Section 3.

4.2 Powering Up

Apply power by Plugging in the 7700-HD AC Power adapter, to the 7700-HD. The Timer Handle is now powered.

4.3 Setting The Timer

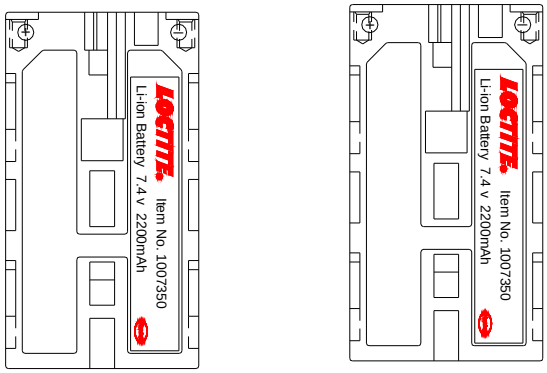


Put the selector switch to timed. By pressing the Timer Set buttons, with a ball point pen, the desired Time setting can be achieved. The button is located below the digit on the display it changes. By holding the button down the display will increment and can be stopped by releasing the button.

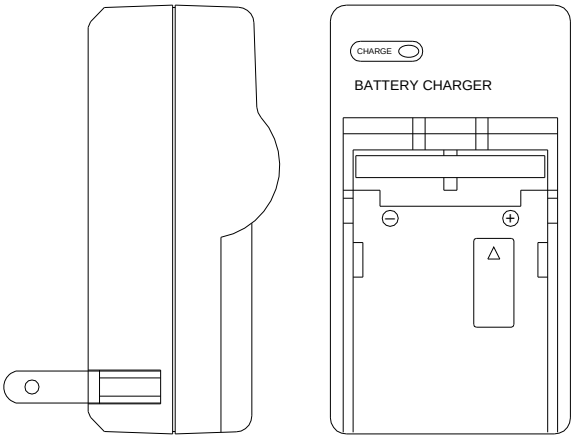
4.4 Operation

Once the timer is set, and the Selector Switch is in the Timed position, Pushing the Timer Start Button will start the 7700-HD LED output. The timer will count down and shut off when timed out. If the Selector switch is in the Manual position, the 7700-HD will remain on as long as the Manual push button is depressed.

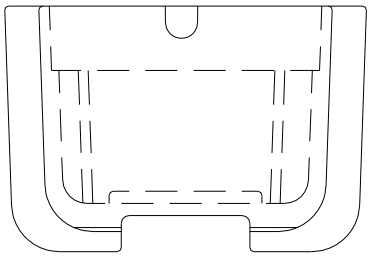
4.5 Accessory 1044301 Lithium Ion Battery Kit



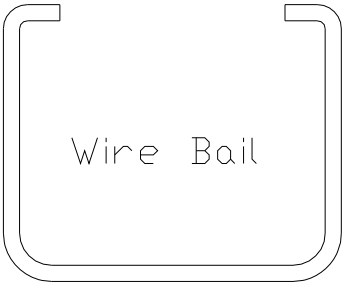
2 Batteries



Charger

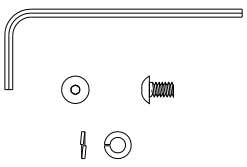


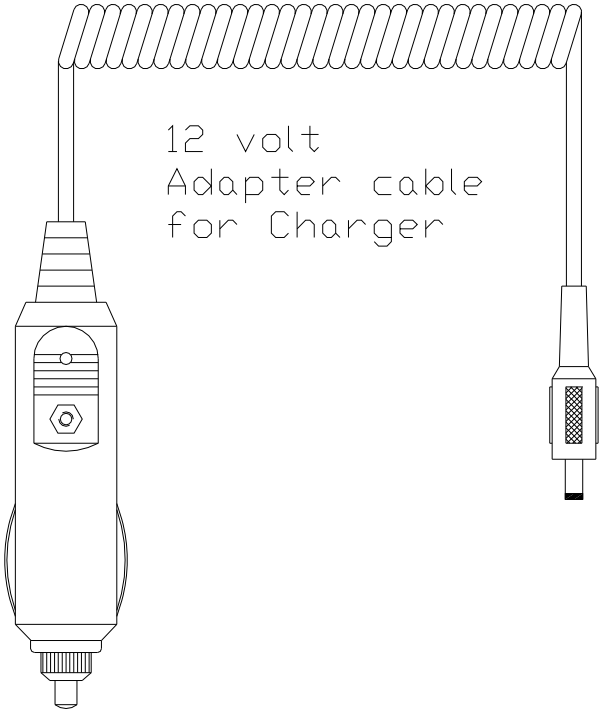
Battery Cap



Wire Bail

Cap Handle hardware

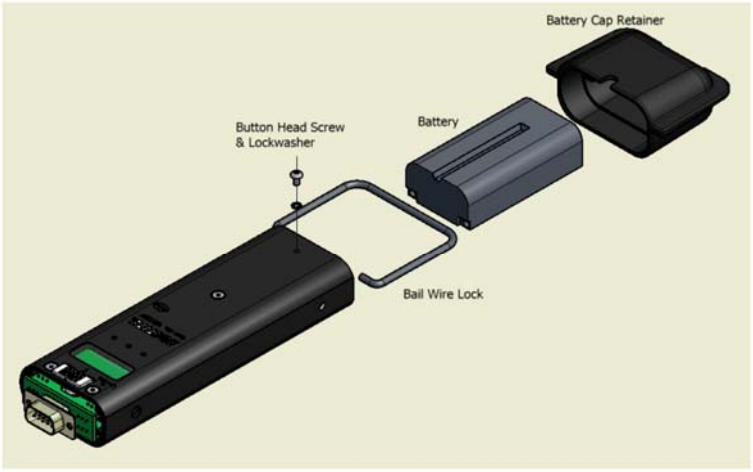




12 volt
Adapter cable
for Charger

4.6 Battery Installation
(Accessory 1044301 Lithium Ion Battery Kit)

Remove Plug from base of Timer Handle.
Install Button Head Screw and lock washer
Install wire Bail
Charge Battery, Insert Battery
Install Battery Cap (note Notch) and lock Bail Wire.



5. Care and Maintenance

☞ **Notice:**
It is recommended when the Timer Handle is used with battery power, that it be used only with the Accessory 1044301 Lithium Ion Battery Kit. The battery and charger have been sized for proper operation, and substituting other batteries may cause damage to the Timer or 7700-HD.

Batteries that read 0 volts, when charged, may be functional.

6. Troubleshooting

Type of Malfunction	Possible Cause	Correction
Timer is mounted to the 7700-HD, but digits do not show in the display window.	- Unit may not be Powered	• Move selector switch to Timed • Plug in power to 7700-HD.
Power is applied, and selector switch is in Timed position, but no display present	- 7700-HD Unit has exceeded thermal operating limit	Call 800-562-8483 For unit Repair • Allow unit to cool
Red light next to the display is on and Timer does not function.	Low Battery Low Battery Light active only when Battery Powered	Remove Battery and Charge

7. Documentation

7.1 Replacement Parts and Accessories

Loctite Part Number	Description
1044301	Two Lithium Ion Batteries, charger, Battery Cap, Wire Bale

EQUIPMENT WARRANTY
For Loctite® Handheld LED Light Source

Henkel Corporation warrants, to the original purchaser for a period of 90 days from date of delivery, that the Loctite® Handheld LED Light Source sold by it is free from defects in material and workmanship. Henkel will, at its option, replace or repair said defective parts or provide a pro-rated credit of the purchased cost based on days of ownership (day 1 = 100%, day 90 = 0%).

This warranty is subject to the following exceptions and limitations.

1. **Purchaser Responsibilities – The Purchaser shall be responsible for:**
   -Normal maintenance and minor adjustments of the equipment as outlined in the Equipment Manual.
   -Notification to Henkel of the need for warranty service.
   -Any cost of travel or transportation connected with warranty repair.
   -All cost associated with investigating or correcting any failure caused by the purchaser's misuse, neglect or unauthorized alteration or repair.
   -All costs attributed to accident or other factors beyond Henkel's control.

2. **No warranty is extended to perishable items, such as:**

   -Fuses -Light Bulbs/ LED -Lamps / Lamp Assembly

3. **The purchaser must provide proof of purchase (original sales receipt, includes price paid, date of purchase).**

No warranty is extended to any equipment, which had been altered, misused, neglected or damaged by accident.

Henkel reserves the right to make changes in design and/or improvements to its equipment without obligation to include these changes in any equipment previously manufactured. Correction of defects by repair or replacement shall constitute fulfillment of all warranty obligations on the part of Henkel Corporation.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND IS THE SOLE AND EXCLUSIVE REMEDY FOR AMY CLAIM OF DAMAGES ARISING FROM ANY DEFECT IN THE HENKEL EQUIPMENT. HENKEL SHALL HAVE NO LIABILITY FOR CONSEQUENTIAL DAMAGES OR PERSONAL INJURY, OR FOR LOSS, DAMAGE, OR EXPENSE, DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF ITS PRODUCTS. NO AGENT, DISTRIBUTOR OR OTHER PARTY IS AUTHORIZED TO MAKE ANY WARRANTY ON BEHALF OF HENKEL, OR TO ASSUME FOR THE HENKEL CORPORATION ANY OTHER LIABILITY WITH RESPECT TO ITS PRODUCTS.

Henkel Corporation
One Henkel Way
Rocky Hill, CT 06067-3910

2515 Meadowpine Boulevard
Mississauga, Ontario L5N 6C3
Canada

Henkel Capital, S.A. de C.V.
Calzada de la Viga s/n Fracc. Los Laureles
Loc. Tulpetlac, C.P. 55090
Ecatepac de Morelos, Edo. de México

Henkel Corporation
Automotive / Metals HQ
32100 Stephenson Hwy.
Madison Heights, MI 48071

Henkel Ltda.
Rua Karl Huller, 136 – Jd.
Canhema 09941-410
Diadema/SP, Brazil

www.loctite.com

Loctite is a trademark of Henkel Corporation, U.S.A. © Copyright 2007. Henkel Corporation
All rights reserved. Data in this operation manual is subject to change without notice.

Manual P/N: 8900996, Rev C, 01/03/2014